QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappa Nagara Colony in Ward No.05

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials			1	1
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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8	RCC(M20)	Compressive Strength(7days and 28days)	30 set /1300-1350 cum	1328.72	60	60
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	11 set /351-400 cum	378.08	22	22
10	GSB	SIEVE ANALYSIS	One Test		1	1
11	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
12	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
13	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
14	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
15	TACK COAT	Rate of spread	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2021-02-16-33** **Date: 22-05-21**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05

Agency : Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Customer's Reference : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Date of Receipt : EE(Project)/Ynk Zone/WO/150/2020-21

Sample Type : 19-05-21

Reference to BIS codes : Birla Super 53grade

: IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification .
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 20-05-21

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.53	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-02-16-33 **Date: 17-06-21**

Project Name	:	Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05
Agency	:	Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78
Customer's Reference	:	EE(Project)/Ynk Zone/WO/150/2020-21
Date of Receipt	:	19-05-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	20-05-21
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-16-33** **Date: 22-05-21**
Project Name	:	Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05
Agency	:	Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division
Customer's Reference	:	Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78
Date of Receipt	:	EE(Project)/Ynk Zone/WO/150/2020-21
Sample Type	:	19-05-21
Reference to BIS codes	:	40mm down size coarse aggregate
		IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	19-05-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7441	7759	51.7	48.3	30-70
4	10 mm	5152	12911	86.1	13.9	10-35
5	4.75 mm	1711	14622	97.5	2.5	0-5
6	Pan	378	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-02-16-33** **Date: 22-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.42	–
6	Water Absorption(%)	0.26	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-16-33** **Date: 21-05-21**
Project Name	:	Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05
		Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division
Agency	:	Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78
Customer Reference	:	EE(Project)/Ynk Zone/WO/150/2020-21
Date of Receipt	:	19-05-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-05-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-02-16-33** **Date: 21-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-02-16-33** **Date: 21-05-21**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05

Agency : Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Customer's Reference : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Date of Receipt : EE(Project)/Ynk Zone/WO/150/2020-21

Sample Type : 19-05-21

Reference to BIS codes : Fine Aggregate

: IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 19-05-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-02-16-33** **Date: 21-05-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%. Crushed Fine aggregate Max 15%. Mixed Fine aggregate Max 12%. Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Format No: CP/TF/01

Lab ID : CP-2021-02-16-33

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05

Date: 20-05-21

Agency : Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Customer's Reference : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Date of Receipt : EE(Project)/Ynk Zone/WO/150/2020-21

Sample Type : 19-05-21

Reference to BIS codes : Sunvik

Date of test: : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

: 19-05-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

20.05.21

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Certificate No : TC-4948

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2021-03-16-33

Date: 05/06/21

Project Name	:	Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.03
Agency	:	Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.03 (Jakkur) By nirayanapura Sub Division
Customer's Reference	:	Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78
Date of Receipt	:	EE(Project)/Ynk Zone/WO/150/2020-21
Sample Type /Size	:	01-06-21
Reference to BIS codes	:	Precast Cover Slab (100mm)
Date of test	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
	:	01/06/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2021-02-16-33
Project Name	:	Improvements to Roads and Drains at Kattigenahalli Colony (Chokkanahalli Colony , Thimmenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No:05 Improvements to Roads and Drains at Kattigenahalli Colony in Ward No:05 (Jakkur)
Agency	:	Byatarayanapura Sub Division Sri.K Dileep Kumar, No.38, 5th Cross, Samrity Layout, 7th Phase, J P Nagar, Bangalore-78
Customer's Reference	:	EE(Project)/Yelk Zone/WO/150/2020-21
Date of Receipt	:	01-06-21
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	01/06/2021

Sl. No.	Identification Mark	Diameter of the core (mm)	Height of the core (mm)	Weight of the core (kg)	Area (Sq.mm)	Failure Load (KN)	Core Compressive strength (N/mm²)	Corrected Cylinder Compressive strength (N/mm²)	Equivalent Cube Compressive strength (N/mm²)
1	Cover Slab-1	200.51	250.48	3.116	31570	580.9	18.4	17.3	21.6
2	Cover Slab-2	200.49	250.52	3.122	31564	589.3	18.7	17.6	21.7
3	Cover Slab-3	200.50	250.51	3.118	31567	585.5	18.5	17.2	21.6

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory

Quality Manager

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Certificate No : TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-16-33 **Date: 07/06/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05

Agency : Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Customer's Reference : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Date of Receipt : EE(Project)/Ynk Zone/WO/150/2020-21

Customer ID : 02-06-21

Sample Type /Size : Drain Bottom Slab Concrete(Kattigenahalli Main Road Connecting To Lake)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 7 Days Compressive Strength

Date of test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 07/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	31/05/2021	07/06/2021	151.72 X 151.57 X 149.28	22996	**8.512**	425.2	18.5	18.7
2	Drain Bottom Slab Concrete	M20	31/05/2021	07/06/2021	151.63 X 150.18 X 149.22	22773	**8.602**	429.7	18.9	
3	Drain Bottom Slab Concrete	M20	31/05/2021	07/06/2021	151.60 X 151.38 X 149.74	22949	**8.820**	429.3	18.7	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-02-16-33**

Date: 28/06/2021

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05

Agency : Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Customer's Reference : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Date of Receipt : EE(Project)/Ynk Zone/WO/150/2020-21

Customer ID : 02-06-21

Sample Type /Size : Drain Bottom Slab Concrete(Kattigenahalli Main Road Connecting To Lake)

Sample grade/Age : 150X150X150 mm

: M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	31/05/2021	28/06/2021	149.29 X 151.18 X 151.16	22569	**8.626**	521.7	23.1	23.1
2	Drain Bottom Slab Concrete	M20	31/05/2021	28/06/2021	149.36 X 149.92 X 149.79	22393	**8.320**	500.0	22.3	
3	Drain Bottom Slab Concrete	M20	31/05/2021	28/06/2021	150.03 X 149.15 X 150.35	22377	**8.801**	531.2	23.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-16-33 **Date: 07/06/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05

Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 02-06-21

Customer ID : Drain Bottom Slab Concrete(Kattigenahalli Main Road Connecting To Lake)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
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3	Drain Bottom Slab Concrete	M20	31/05/2021	07/06/2021	151.60 X 151.38 X 149.74	22949	**8.820**	429.3	18.7	

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8, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No : TC-6548

Lab ID

Project Name

Agency

Customer's Reference

Date of Receipt

Customer ID

Sample Type /Size

Sample grade/Age

Reference to BIS codes

Date of test

Format No: CP/TP/01

TEST REPORT OF CEMENT CONCRETE CUBES

CP/3811/05/16/33

Date: 28/06/2021

: Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Ittkot Colony and Basavalingappanagara Colony in Ward No.05

: Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

: M/S. Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

: E:\(Project)\Vdk Zone\WO/150/2020-21

: 03/06/21

: Drain Bottom Slab Concrete(Kattigenahalli Main Road Connecting To Lake)

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/06/2021

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-16-33 **Date: 07/06/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05

Agency : Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Customer's Reference : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Date of Receipt : EE(Project)/Ynk Zone/WO/150/2020-21

Customer ID : 02-06-21

Sample Type /Size : Drain Bottom Slab Concrete(Kattigenahalli Main Road Connecting To Lake)

Sample grade/Age : 150X150X150 mm

Reference to BIS codes : M20 / 7 Days Compressive Strength

Date of test : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 07/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
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3	Drain Bottom Slab Concrete	M20	31/05/2021	07/06/2021	151.60 X 151.38 X 149.74	22949	8.820	429.3	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-16-33 **Date: 28/06/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05

Improvements to Roads and Drains at Kattigenahalli Colony in Ward No.05 (Jakkur) Byatarayanapura Sub Division

Agency : Sri.K Dileep Kumar, No.38, 5th Cross, Suncity Layout, 7th Phase, J P Nagar, Bangalore-78

Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

Date of Receipt : 02-06-21

Customer ID : Drain Bottom Slab Concrete(Kattigenahalli Main Road Connecting To Lake)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/06/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-02-16-33** **Date: 07/06/2021**

Project Name : Improvements to Roads and Drains at Kattigenahalli Colony ,Chokkanahalli Colony , Thirumenahalli Colony , Jakkur Colony and Basavalingappanagara Colony in Ward No.05

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Customer's Reference : EE(Project)/Ynk Zone/WO/150/2020-21

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Sample Type /Size : 150X150X150 mm

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